

STATE CORPORATION COMMISSION OF KANSAS  
OIL & GAS CONSERVATION DIVISION  
WELL COMPLETION FORM  
ACO-1 WELL HISTORY  
DESCRIPTION OF WELL AND LEASE

API No. 15- 033-21148-0000

County Comanche

AP-SW - SW - SW Sec. 25 Twp. 32 Rge. 19 X W

Operator: License # 3882

**CONFIDENTIAL**

500 Feet from South Line of Section

500 Feet from West Line of Section

FEB 05 2001

Footages calculated from nearest outside section corner **CONFIDENTIAL**

Name: Samuel Gary Jr. & Associates, Inc.

Address 1670 Broadway, Suite 3300

City/State/Zip Denver, CO 80202-4838

Lease Name Nielsen Well # 25-13

Field Name Wildcat

Purchaser: Reliant Energy

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KANSAS CORPORATION COMMISSION

Producing Formation Mississippi

Operator Contact Person: Tom Fertal

Phone 303-831-4673

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Elevation: Ground 1999' KB 2011'

Total Depth 5950' PBDT 5303'

Contractor: Name: Duke Drilling Co., Inc.

2-5-01

Amount of Surface Pipe Set and Cemented at 667 Feet

License: 5929

CONSERVATION DIVISION  
WICHITA, KS

Multiple Stage Cementing Collar Used? Yes X No

Wellsite Geologist: Dale Padgett

If yes, show depth set Feet

Designate Type of Completion  
X New Well Re-Entry Workover

If Alternate II completion, cement circulated from

Oil SWD SLOW Temp. Abd.  
X Gas ENHR SIGW  
Dry Other (Core, WSW, Expl., Cathodic, etc.)

feet depth to w/ sx cmt.

If Workover/Re-Entry: Oil well info as follows:

**RELEASED**

Drilling Fluid Management Plan ALT 1 DW 12-27-01  
(Data must be collected from the Reserve Pit)

Operator:

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Chloride content ppm Fluid Volume bbls

Well Name:

Dewatering method used

Comp. Date Old Total Depth

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Location of fluid disposal if hauled offsite:

Deepening Re-Perf. Conv. To Inj/SWD  
Plug Back PBDT  
Commingled Docket No.  
Dual Completion Docket No.  
Other (SWD or Inj?) Docket No.

Operator Name

Lease Name

10/9/00 10/24/00 11/30/00  
Spud Date Date Reached TD Completion Date

Quarter Sec. Twp. Rng. W

County Docket No.

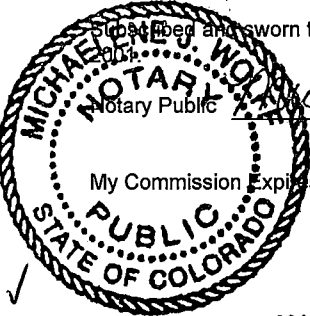
INSTRUCTIONS: An original and two copies of this information shall be filed with the Kansas Corporation Commission, 130 South Market, Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82030196 and 82-3-107 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geological well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature *Thomas Fertal*

Title Senior Geologist Date 2/2/01

Subscribed and sworn to before me this 2nd day of February



*Michaelene J. Walz*

11-27-04

K.C.C. OFFICE USE ONLY  
F  Letter of Confidentiality Attached  
C  Wireline Log Received  
C  Geologist Report Received  
Distribution  
KCC \_\_\_\_\_ SWD/Rep \_\_\_\_\_ NGPA \_\_\_\_\_  
KGS \_\_\_\_\_ Plug \_\_\_\_\_ Other \_\_\_\_\_  
(Specify)

CONFIDENTIAL

ORIGINAL

Operator Name Samuel Gary Jr. & Associates, Inc.

Lease Name Nielsen

Well# 25-13

Sec. 25 Twp. 32S Rge. 19W

East West

County Comanche

Instructions: Show important tops and base of formation penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken (Attach Additional Sheets.)
Sample Sent to Geological Survey
Cores Taken
Electric Log Run (Submit Copy.)
List all E. Logs Run: dual induction, comp neutron-density, micro log, sonic log

Log Formation (Top), Depth and Datum
Name Top Datum
STONE CORRAL 994 (1017)
WABAUNSEE 3399 (-1388)
BASE HEEBNER SHALE 4279 (-2268)
LANSING 4454 (-2443)
STARK SHALE 4787 (-2776)
CHEROKEE SHALE 5083 (-3072)
TOP MISS UNCONFORMITY 5157 (-3146)
5827 (-3816)

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CASING RECORD New Used

Report all strings set - conductor, surface, intermediate, production, etc.

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Table with 8 columns: Purpose of string, Size Hole Drilled, Size Casing Set (in O.D.), Weight Lbs./Ft., Setting Depth, Type of Cement, # Sacks Used, Type and Percent Additives. Rows include conductor, surface, and production data.

ADDITIONAL CEMENTING/SQUEEZE RECORD

Table with 5 columns: Purpose, Depth Top Bottom, Type of Cement, # Sacks Used, Type and Percent Additives. Includes checkboxes for Perforate, Protect Casing, Plug Back TD, Plug Off Zone.

Table with 3 columns: Shots per Foot, PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated, Acid. Fracture, Shot, Cement, Squeeze Record (Amount and Kind of Material Used) Depth.

Table with 4 columns: TUBING RECORD (Size, Set At, Packer At, Liner Run), Date of First, Resumed Production, SWD or Inj., Producing Method, Estimated Production Per 24 Hours (Oil, Gas, Water, Gravity).

Disposition of Gas

METHOD OF COMPLETION

Production Interval

Vented Sold Used on Lease (If vented, submit ACO-18).

Open Hole Perf. Dually Comp. Commingled Other (Specify)

5160 - 5250 OA

**CONFIDENTIAL ALLIED CEMENTING CO., INC.** 4091 ORIGINAL  
 Federal Tax I.D.# 48-0727860 KCC

REMIT TO P.O. BOX 31  
 RUSSELL, KANSAS 67665

FEB 05 2001 SERVICE POINT:  
 med. lodge, ks

CONFIDENTIAL

DATE 10-10-00	SEC. 25	TWP. 32S	RANGE 19W	CALLED OUT 4:00A.m.	ON LOCATION 7:00A.m.	JOB START 1:00P.m.	JOB FINISH 2:00P.m.
LEASE nielsch		WELL # 25-13	LOCATION Coldwater, Airport, 1w - 1/4n		COUNTY Comanche	STATE Ks.	
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR Duke Drq.  
 TYPE OF JOB Surface Csg.  
 HOLE SIZE 12 1/4 T.D. 650'  
 CASING SIZE 8 7/8 x 24 DEPTH 649'  
 TUBING SIZE DEPTH  
 DRILL PIPE DEPTH  
 TOOL DEPTH  
 PRES. MAX 400 MINIMUM 200  
 MEAS. LINE SHOE JOINT 39.20  
 CEMENT LEFT IN CSG.

OWNER Sam Gary Jr + Associates

CEMENT  
 AMOUNT ORDERED 225 SX ALW + 3%CC  
1/4# Flo-Seal 100sx CLASS A + 3%CC + 2%Gel

PERFS.  
 DISPLACEMENT Fresh H<sub>2</sub>O - 40 1/2 Bbls **RELEASED**

COMMON A	100	@ 6.35	635.00
POZMIX		@	
GEL	2	@ 9.50	19.00
CHLORIDE	11	@ 28.00	308.00
<u>ALW</u>	<u>225</u>	@ 6.00	1350.00
<u>Flo-Seal</u>	<u>56#</u>	@ 1.15	64.40

EQUIPMENT

MAR 07 2003

PUMP TRUCK CEMENTER Larry Dreiling  
 # 265 HELPER MARK Brunardt  
 BULK TRUCK  
 # 353 DRIVER DAVID Felio  
 BULK TRUCK  
 # DRIVER

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HANDLING	350	@ 1.05	367.50
MILEAGE	350 x 44	.04	616.00

TOTAL 3359.90

FEB 05 2001

REMARKS:

SERVICE

Pipe on Bottom - Break Circ.  
Pump 225 sx ALW + 3%CC + 1/4# Flo-Seal  
Pump 100 sx CLASS A + 3%CC + 2%Gel  
Release Plug Pump + Displace Plug  
w/ 40 1/2 Bbls Fresh H<sub>2</sub>O. Bump Plug  
Shut In Cement Did Circ. ✓

CONSERVATION DIVISION  
 WICHITA KS

DEPTH OF JOB	649'		
PUMP TRUCK CHARGE	0-300'		470.00
EXTRA FOOTAGE	349'	@ .43	150.07
MILEAGE	44	@ 3.00	132.00
PLUG Rubber	8 5/8	@ 90.00	90.00

TOTAL 842.07

CHARGE TO: SAM GARY Jr. + Associates % LARSON ENG

STREET 562 W. Hwy 4  
 CITY OLMETZ STATE KANSAS ZIP 67564

FLOAT EQUIPMENT

1- Baffle Plate	@ 45.00	45.00
1- Basket	@ 180.00	180.00
	@	
	@	
	@	

TOTAL 225.00

To Allied Cementing Co., Inc.  
 You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND CONDITIONS" listed on the reverse side.

SIGNATURE [Signature]

TAX \_\_\_\_\_  
 TOTAL CHARGE 4426.97  
 DISCOUNT 442.70 IF PAID IN 30 DAYS  
3984.27  
X JOE LIVINGSTON  
 PRINTED NAME

**SWIFT SERVICES, INC.**

PO BOX 466

NESS CITY, 67560-0466

**CONFIDENTIAL**

ORIGINAL

**Invoice**

V27019

DATE	INVOICE #
10/25/00	2911

KCC

FEB 05 2001

**CONFIDENTIAL**

DRLG  COMP  W/O  LOE

AFE # 2513

ACCT # 137/260

APPROVED BY T.C. Janson

BILL TO
Samuel Gary Jr & Associates 562 W. Hwy 4 Olmitz, KS 67564-8561

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Operator	Job Purpose
Net 30	25-13	Nielson	Comanche	Duke Rig # 5	Gas	Development	Ted	Long String

PRICE REFERE...	DESCRIPTION	QTY	UNIT PRICE	AMOUNT
575D	Milage	70	2.50	175.00
579D	Pump Charge	1	1,500.00	1,500.00
221	Liquid KCL	1	19.00	19.00
330	Swift Multi-Density	100	9.50	950.00T
287	Gas Stop	200	4.50	900.00T
277	Gilsonite	500	0.30	150.00T
285	CFR-1	50	2.75	137.50T
290	D-Air	50	2.75	137.50T
581D	Service Charge Cement	100	1.00	100.00
583D	Drayage	376.6	0.75	282.45
	Subtotal			4,351.45
	Sales Tax		4.90%	111.48

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WICHITA, KS

<b>Thank you for your business.</b>	<b>Total</b>	\$4,462.93
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CUSTOMER Sam Gary & Assoc WELL NO. 25-13 LEASE Nielson JOB TYPE Long string TICKET NO. 2911

Table with columns: CHART NO., TIME, RATE (BPM), VOLUME (BBL) (GAL), PUMPS (T, C), PRESSURE (PSI) (TUBING, CASING), DESCRIPTION OF OPERATION AND MATERIALS. Includes handwritten entries for operations like 'Called out', 'On Location / Rig laying down drill pipe', 'Rig doing cellar work', 'Start csg in hole', 'Formation Packer shoe & latch down buffer on 1st ft', 'Centralizers on 1,2,3,4,5,6,7,8,9, & 10th cells', 'Cement Baskets sliding on 11, & 22 ft', 'Csg on bottom', 'Hook up & circulate', 'Drop ball for Packer shoe', 'Set Packer shoe at 950 PSI', 'Circulate', 'Done Circulating', 'Plug rat hole & mouse hole', 'Pump 7bbl KCL with spacer', 'Started mixing cement 100stk Swift Multi-Density w/ 27% gas step 5# Gilsort', '1/2% CFR-1, & 1/2% D-Air-1 per stk.', 'Done mixing cement', 'Released plug & washed out lines', 'Started displacement', '12.5 bbls pumped. Plug land. at 850 PSI', 'Continued pumping into at 4/bpm at 800 PSI', 'Pumped 127 bbl total stop', 'Shut down', 'Release back 1 bbl.', 'Shut in at well Head', 'Washed up & Racked up', 'Job complete', '174 ft on tally 5399.69', 'Left 3 ft out 24.90, 22.50 & 31.74', 'Tally of 5320.55 + 10ft Landing ft 5330.55 + 1.45 for Packer shoe', 'Packer shoe set at 5332', 'Thank you', 'Jed Fuchs'

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CONSERVATION DIVISION  
WICHITA, KS

600  
850

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ORIGINAL

TRILOBITE TESTING L.L.C.

OPERATOR : Sam Gary Jr. & Assoc.

DATE 10-18-00

WELL NAME: Nielson "25-13"

KB 2011.00 ft

TICKET NO: 13088 DST #1

LOCATION : 25-32S-19W Comanche co KS

GR 1999.00 ft

FORMATION: Mississippi

INTERVAL : 5171.00 To 5268.00 ft

TD 5268.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA			
PF	0	Rec.	10242	10242	Alpine		PF Fr.	to	hr	
SI	0	Range (Psi)	4100.0	4100.0	5000.0	0.0	0.0	IS Fr.	to	hr
SF	0	Clock (hrs)	12 HR	12 HR	Elect		SF Fr.	to	hr	
FS	0	Depth (ft)	5265.0	5265.0	5173.0	0.0	0.0	FS Fr.	to	hr

	Field	1	2	3	4		
A. Init Hydro	0.0	0.0	0.0	0.0	0.0	T STARTED	0115 hr
B. First Flow	0.0	0.0	0.0	0.0	0.0	T ON BOTM	hr
B1. Final Flow	0.0	0.0	0.0	0.0	0.0	T OPEN	hr
C. In Shut-in	0.0	0.0	0.0	0.0	0.0	T PULLED	0230 hr
D. Init Flow	0.0	0.0	0.0	0.0	0.0	T OUT	0400 hr
E. Final Flow	0.0	0.0	0.0	0.0	0.0		
F. Fl Shut-in	0.0	0.0	0.0	0.0	0.0	TOOL DATA	
G. Final Hydro	0.0	0.0	0.0	0.0	0.0	Tool Wt.	2800.00 lbs
Inside/Outside	I	I	I			Wt Set On Packer	0.00 lbs
						Wt Pulled Loose	0.00 lbs
						Initial Str Wt	0.00 lbs
						Unseated Str Wt	0.00 lbs
						Bot Choke	0.75 in
						Hole Size	7.78 in
						D Col. ID	2.25 in
						D. Pipe ID	3.80 in
						D.C. Length	124.00 ft
						D.P. Length	5043.00 ft

RECOVERY

Tot Fluid 0.00 ft of 0.00 ft in DC and 0.00 ft in DP  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of

SALINITY 0.00 P.P.M. A.P.I. Gravity 0.00

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BLOW DESCRIPTION

Misrun "Hit bridge at 1480'. Tool would not go.

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WICHITA, KS

SAMPLES: None  
SENT TO:

Test Successful: N

MUD DATA-----

Mud Type	Chemical
Weight	9.10 lb/c:
Vis.	64.00 S/L
W.L.	9.60 in3
F.C.	0.00 in
Mud Drop N	
Amt. of fill	0.00 ft
Btm. H. Temp.	0.00 F
Hole Condition	Poor
% Porosity	5.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out N	
Tool Chased N	
Tester	Lanny Saloga
Co. Rep.	Craig Padgett
Contr.	Duke
Rig #	5
Unit #	
Pump T.	

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ORIGINAL

\*\*\* TOOL DIAGRAM \*\*\* CONVENTIONAL

WELL NAME: Nielson "25-13"

LOCATION : 25-32S-19W Comanche co KS

TICKET No. 13088 D.S.T. No. 1 DATE 10-18-00

TOTAL TOOL TO BOTTOM OF TOP PACKERS ..... 30

INTERVAL TOOL .....

BOTTOM PACKERS AND ANCHOR ..... 35

TOTAL TOOL ..... 65

DRILL COLLAR ANCHOR IN INTERVAL .....

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands 1 Single Total 62

TOTAL ASSEMBLY ..... 127

D.C. ABOVE TOOLS.Stands 2 Single Total 124

D.P. ABOVE TOOLS.Stands 82 Single Total 5043

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5294

TOTAL DEPTH ..... 5268

TOTAL DRILL PIPE ABOVE K.B. .... 26

REMARKS:

Miss-run "Hit bridge at 1480'. Tool would not go.

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WICHITA, KS

P.O. SUB Cir. sub	5017
C.O. SUB Top of tool	5141
Double pin	5142
S.I. TOOL Sterling	5147
Sampler	5150
HMV Sterling	5155
JARS Bowen KCC	5160
FEB 05 2001 CONFIDENTIAL	
SAFETY JOINT Bowen	5162
PACKER Sparton	5167
PACKER Sparton	5171
DEPTH	
1 ft.	5172
ANCHOR Rec. sub	5173
Alpine	5173
Pu. sub	5178
24 ft. perfs	5202
Co. sub	5203
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1 std. DP. 62 ft.	5265
AK-1	5265
Co. sub	5266
BULLNOSE 2 ft. perf	
T.D.	5268

ORIGINAL

# TEST HISTORY

13088 D.S.T.#1 Nielson "25-13" Sam Gary Jr. & Associates

Flag Points  
t(Min.) P(PSig)

R1	0.00	875.46
B	0.00	662.30
Q	0.00	662.30

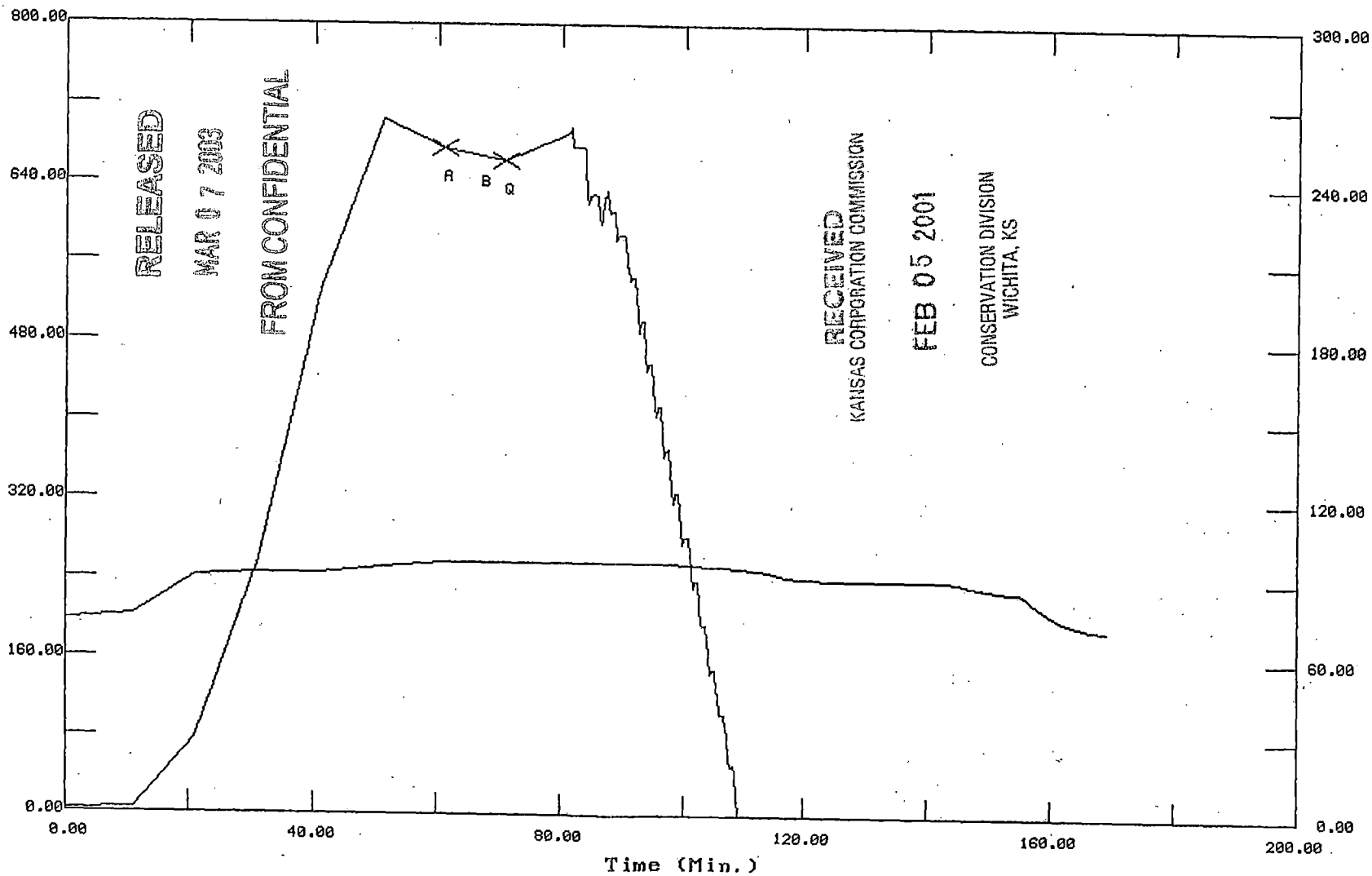
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Pressure (PSig)

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TRILOBITE TESTING L.L.C.

ORIGINAL

OPERATOR : Sam Gary Jr. & Assoc.  
WELL NAME: Nielson "25-13"  
LOCATION : 25-32S-19W Comanche co KS  
INTERVAL : 5171.00 To 5268.00 ft

DATE 10-19-00  
KB 2011.00 ft TICKET NO: 13089 DST #2  
GR 1999.00 ft FORMATION: Mississippi  
TD 5268.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 15 Rec.	10242	10242	Alpine			PF Fr. 1350 to 1405 hr
SI 90 Range(Psi )	4100.0	4100.0	5000.0	0.0	0.0	IS Fr. 1405 to 1535 hr
SF 75 Clock(hrs)	12 HR	12 HR	Elect			SF Fr. 1535 to 1650 hr
FS 240 Depth(ft )	5265.0	5265.0	5173.0	0.0	0.0	FS Fr. 1650 to 2050 hr

	Field	1	2	3	4	
A. Init Hydro	2635.0	0.0	2509.0	0.0	0.0	T STARTED 1200 hr
B. First Flow	275.0	0.0	199.0	0.0	0.0	T ON BOTM 0147 hr
B1. Final Flow	245.0	0.0	129.0	0.0	0.0	T OPEN 0150 hr
C. In Shut-in	1905.0	0.0	1843.0	0.0	0.0	T PULLED 2050 hr
D. Init Flow	221.0	0.0	139.0	0.0	0.0	T OUT 0015 hr
E. Final Flow	205.0	0.0	98.0	0.0	0.0	
F. Fl Shut-in	1803.0	0.0	1775.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2601.0	0.0	2459.0	0.0	0.0	Tool Wt. 2800.00 lbs
Inside/Outside	I	I	I			Wt Set On Packer 20000.00 lbs

RECOVERY

Tot Fluid 100.00 ft of 100.00 ft in DC and 0.00 ft in DP  
5065.00 ft of Gas in pipe  
100.00 ft of Slightly gas cut mud  
0.00 ft of 4% gas 96% mud  
0.00 ft of  
0.00 ft of  
0.00 ft of  
0.00 ft of  
0.00 ft of

SALINITY 6800.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:  
Strong bottom of bucket in 30 seconds  
Gas to surface in 5 minutes. Gauged  
331,000 in 15 minutes.

Initial shut-In:

No blow back.

Final Flow:

Gauged 370,000 decreasing &  
stabilizing @ 288,000 in final 25  
minutes of flow.

Final Shut-In:

No blow back.

Hit bridge at 1480'. Gas burned.  
Had specks of oil in test tool.

SAMPLES: One  
SENT TO: Caraway

Test Successful: Y

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WICHITA, KS

Wt Pulled Loose	21000.00 lbs
Initial Str Wt	68000.00 lbs
Unseated Str Wt	69000.00 lbs
Bot Choke	0.75 in
Hole Size	7.78 in
D Col. ID	2.25 in
D. Pipe ID	3.80 in
D.C. Length	184.00 ft
D.P. Length	4981.00 ft

MUD DATA-----	
Mud Type	Chemical
Weight	9.10 lb/c
Vis.	60.00 S/L
W.L.	9.80 in3
F.C.	0.00 in
Mud Drop Y	10.0 ft
Amt. of fill	0.00 ft
Btm. H. Temp.	123.00 F
Hole Condition	Poor
% Porosity	5.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out N	
Tool Chased N	
Tester	Lanny Saloga
Co. Rep.	Craig Padgett
Contr.	Duke
Rig #	5
Unit #	
Pump T.	

CONFIDENTIAL

GAS RECOVERY

ORIGINAL

COMPANY: Sam Gary Jr. & Assoc.

DATE: 10-19-00

WELL NAME: Nielson "25-13"

KB Elev: 2011.00 ft TICKET #13089 DST #2

WELL LOCATION: 25-32S-19W Comanche co KS

GR Elev: 1999.00 ft FORMATION: Mississippi

INTERVAL Fr.: 5171.00 To 5268.00 T.D.: 5268.00 ft TEST TYPE: CONVENTIONAL

GAS RECOVERY MEASURED WITH Merla Orifice

\*\*\*\*\* GAS RATES FOR FLOW #1

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
10	0.75	13	0	303000.0
15	0.75	15	0	331000.0

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\*\*\*\*\* GAS RATES FOR FLOW #2

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
5	0.75	18	0	370000.0
10	0.75	18	0	370000.0
20	0.75	16	0	344000.0
25	0.75	15	0	331000.0
30	0.75	14	0	317000.0
35	0.75	14	0	317000.0
40	0.75	13	0	303000.0
45	0.75	13	0	303000.0
50	0.75	12	0	288000.0
55	0.75	12	0	288000.0
60	0.75	12	0	288000.0
65	0.75	12	0	288000.0
70	0.75	12	0	288000.0
75	0.75	12	0	288000.0

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CONSERVATION DIVISION  
WICHITA, KS

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\*\*\* TOOL DIAGRAM \*\*\* CONVENTIONAL

ORIGINAL

WELL NAME: Nielson "25-13"

LOCATION : 25-32S-19W Comanche co KS

TICKET No. 13089 D.S.T. No. 2 DATE 10-19-00

TOTAL TOOL TO BOTTOM OF TOP PACKERS ..... 30

INTERVAL TOOL .....

BOTTOM PACKERS AND ANCHOR ..... 35

TOTAL TOOL ..... 65

DRILL COLLAR ANCHOR IN INTERVAL .....

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands 1 Single Total 62

TOTAL ASSEMBLY ..... 127

D.C. ABOVE TOOLS.Stands 3 Single Total 184

D.P. ABOVE TOOLS.Stands 80 Single Total 4981

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5292

TOTAL DEPTH ..... 5268

TOTAL DRILL PIPE ABOVE K.B. .... 24

REMARKS:

FLUID SAMPLER DATA

Total Vol. 4000 ML.  
 Total Vol. Rec. 0 ML.  
 Oil 0 ML.  
 Mud 0 ML.  
 Wtr. 0 ML.  
 Gas 18.2 CF.  
 Psi. 1460  
 Bht. 123 F.  
 Pit RW. 0.91 Ohms at 73 F. 6,500 PPM.  
 Rec RW. 1.1 Ohms at 56 F. 6,800 PPM.  
 Gravity -- at -- F.  
 Rec RW. taken from sample on top of tool.

H	P.O. SUB Cir. sub	5017
H	C.O. SUB Top of tool	5141
	Double pin	5142
H	S.I. TOOL Sterling	5147
H	Sampler	5150
H	HMV Sterling	5155
H	JARS Bowen	5160
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	<b>CONFIDENTIAL</b>	
H	SAFETY JOINT Bowen	5162
H	PACKER Sparton	5167
H	PACKER Sparton	5171
H	DEPTH	
	1 ft.	5172
H	ANCHOR Rec. sub	5173
	Alpine	5173
	Pu. sub	5178
H	24 ft. perfs	5202
	<b>RELEASED</b>	
H	Co. sub	5203
	<b>MAR 07 2003</b>	
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	<b>RECEIVED</b>	
	<b>KANSAS CORPORATION COMMISSION</b>	
	<b>FEB 05 2001</b>	
	<b>CONSERVATION DIVISION</b>	
	<b>WICHITA, KS</b>	
H	1 std. DP 62 ft.	5265
H	AK-1	5265
H	Co. sub	5266
H	BULLNOSE 2 ft. perf	
H	T.D.	5268

ORIGINAL

# TEST HISTORY

13889 D.S.T.#2 Nielson "25-13" Sam Gary Jr. & Associates

Flag Points

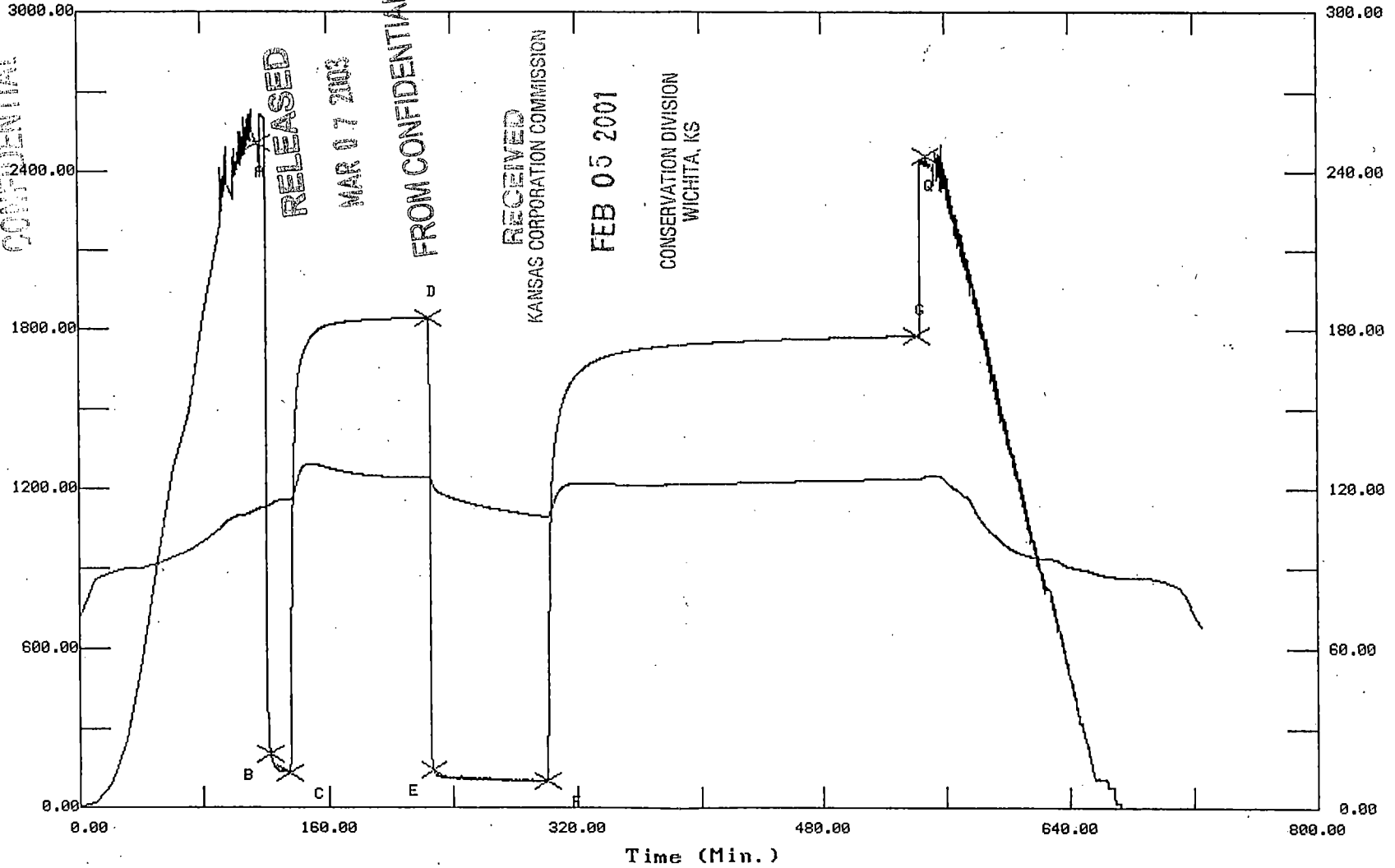
	t (Min.)	P (PSig)
A:	0.00	2509.26
B:	0.00	199.05
C:	12.50	129.46
D:	90.00	1843.21
E:	0.00	139.45
F:	73.75	98.82
G:	240.50	1775.86
Q:	0.00	2459.05

Pressure ( PSig )

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Temperature (DEG F)

Time (Min.)

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TRILOBITE TESTING L.L.C.

ORIGINAL

OPERATOR : Sam Gary Jr. & Associate  
WELL NAME: Nielson "25-13"  
LOCATION : 25-32S-19W Comanche co KS  
INTERVAL : 5298.00 To 5341.00 ft

DATE 10-20-00  
KB 2011.00 ft TICKET NO: 13090 DST #3  
GR 1999.00 ft FORMATION: Mississippi  
TD 5341.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 15 Rec.	10242	10242	Alpine			PF Fr. 1715 to 1730 hr
SI 45 Range(Psi )	4100.0	4100.0	5000.0	0.0	0.0	IS Fr. 1730 to 1815 hr
SF 30 Clock(hrs)	12 HR	12 HR	Elect			SF Fr. 1815 to 1845 hr
FS 60 Depth(ft )	5338.0	5338.0	5300.0	0.0	0.0	FS Fr. 1845 to 1945 hr

	Field	1	2	3	4	
A. Init Hydro	2637.0	0.0	2560.0	0.0	0.0	T STARTED 1525 hr
B. First Flow	70.0	0.0	31.0	0.0	0.0	T ON BOTM 1712 hr
Bl. Final Flow	86.0	0.0	99.0	0.0	0.0	T OPEN 1715 hr
C. In Shut-in	1839.0	0.0	1836.0	0.0	0.0	T PULLED 1945 hr
D. Init Flow	142.0	0.0	107.0	0.0	0.0	T OUT 2245 hr
E. Final Flow	170.0	0.0	169.0	0.0	0.0	
F. Fl Shut-in	1803.0	0.0	1795.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2556.0	0.0	2483.0	0.0	0.0	Tool Wt. 2000.00 lbs
Inside/Outside	I	I	I			Wt Set On Packer 20000.00 lb-
						Wt Pulled Loose 7000.00 lb
						Initial Str Wt 67000.00 lbs
						Unseated Str Wt 68000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.78 in
						D Col. ID 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 184.00 ft
						D.P. Length 5106.00 ft

RECOVERY

Tot Fluid 265.00 ft of 184.00 ft in DC and 81.00 ft in DP  
80.00 ft of Heavy water cut  
0.00 ft of 34% water 66% mud  
185.00 ft of Water  
0.00 ft of 100% water  
0.00 ft of  
0.00 ft of  
0.00 ft of  
0.00 ft of  
SALINITY 36000.00 P.P.M. A.P.I. Gravity 0.00

MUD DATA-----	
Mud Type	Chemical
Weight	9.10 lb
vis.	48.00 S/L
W.L.	9.90 in3
F.C.	0.00 in
Mud Drop Y	10.0 ft

BLOW DESCRIPTION

Initial Flow:  
Weak 1/4" built to 6 1/2" in bucket  
in 15 minutes.  
Initial Shut-In:  
No blow back.  
Final Flow:  
Surface blow built to 9" in bucket  
Final Shut-In:  
No blow back.

Remarks: Est. 20 Ft. of Pay.

SAMPLES: None  
SENT TO:

Test Successful: Y

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WICHITA, KS

Amt. of fill	0.00 ft-
Btm. H. Temp.	126.00 F
Hole Condition	Good
% Porosity	3.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out N	
Tool Chased N	
Tester	Lanny Saloga
Co. Rep.	Craig Padgett
Contr.	Duke
Rig #	5
Unit #	
Pump T.	

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\*\*\* TOOL DIAGRAM \*\*\* CONVENTIONAL

ORIGINAL

WELL NAME: Nielson "25-13"

LOCATION : 25-32S-19W Comanche co KS

TICKET No. 13090 D.S.T. No. 3 DATE 10-20-00

TOTAL TOOL TO BOTTOM OF TOP PACKERS ..... 30

INTERVAL TOOL .....

BOTTOM PACKERS AND ANCHOR ..... 43

TOTAL TOOL ..... 73

DRILL COLLAR ANCHOR IN INTERVAL .....

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY .....

D.C. ABOVE TOOLS.Stands 3 Single Total 184

D.P. ABOVE TOOLS.Stands 82 Single Total 5106

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5363

TOTAL DEPTH ..... 5341

TOTAL DRILL PIPE ABOVE K.B. .... 22

REMARKS:

FLUID SAMPLER DATA

Total Vol. 4000 ML.  
 Total Vol: Rec. 4000 ML.  
 Oil 0 ML.  
 Mud 0 ML.  
 Wtr. 4000 ML.  
 Gas 0 CF.  
 Psi. 220  
 Bht. 126 F.  
 Pit RW. 0.68 Ohms at 65 F. 9,800 PPM.  
 Rec RW. 0.25 Ohms at 56 F. 36,000 PPM.  
 Gravity -- at -- F.

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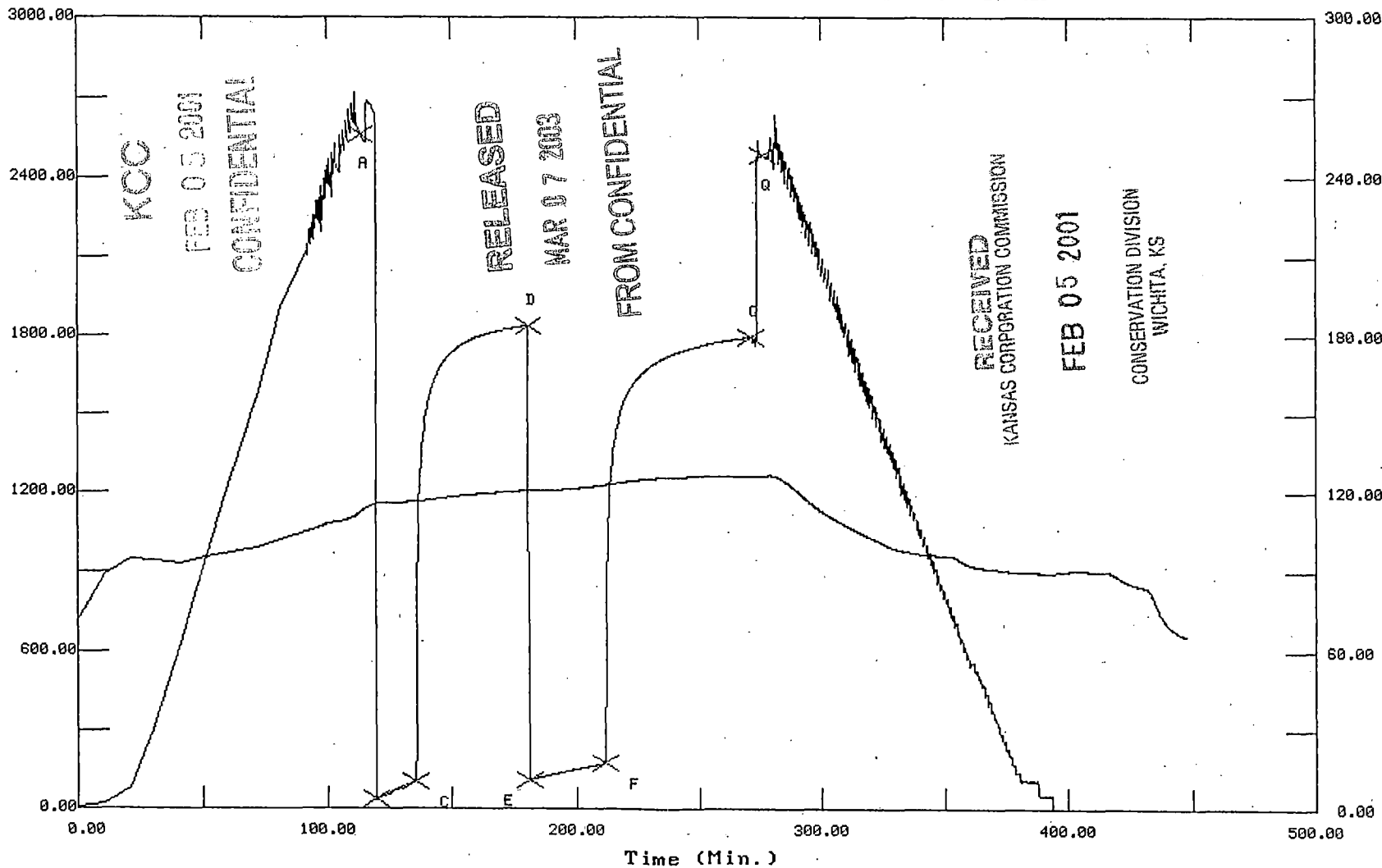
P.O. SUB Cir. sub	5144
C.O. SUB Top of tool	5268
Double pin	5269
S.I. TOOL Sterling	5274
Sampler	5277
HMV Sterling	5282
JARS Bowen KCC	5287
FEB 05 2001 CONFIDENTIAL	
SAFETY JOINT Bowen	5289
PACKER Sparton	5294
PACKER Sparton	5298
DEPTH	
1 ft.	5299
ANCHOR Rec. sub	5300
Alpine	5300
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Pu. sub	5305
AK-1	5338
34 ft. perfs	5339
BULLNOSE 2 ft. perf	
T.D.	5341

# TEST HISTORY

13090 D.S.T.#3 Nielson "25-13" Sam Gary Jr. & Associates

Flag Points  
t(Min.) P(PSIg)

R:	0.00	2560.25
B:	0.00	31.35
C:	16.00	99.24
D:	45.25	1836.64
E:	0.00	107.17
F:	30.25	169.45
G:	60.00	1795.31
Q:	0.00	2483.26



ORIGINAL

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Pressure (PSIg)

Temperature (DEG F)

Time (Min.)

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TRILOBITE TESTING L.L.C.

ORIGINAL

OPERATOR : Sam Gary Jr. & Assoc.

DATE 10-23-00

WELL NAME: Nielson "25-13"

KB 2011.00 ft

TICKET NO: 13092

DST #4

LOCATION : 25-32S-19W Comanche co KS

GR 1999.00 ft

FORMATION: Viola

INTERVAL : 5824.00 To 5846.00 ft

TD 5846.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 10 Rec.	10242	10242	3017			PF Fr. 0935 to 0945 hr
SI 60 Range(Psi )	4175.0	4175.0	5000.0	0.0	0.0	IS Fr. 0945 to 1045 hr
SF 45 Clock(hrs)	12 HR	12 HR	Elect			SF Fr. 1045 to 1130 hr
FS 120 Depth(ft )	5843.0	5843.0	5826.0	0.0	0.0	FS Fr. 1130 to 1330 hr

	Field	1	2	3	4	
A. Init Hydro	2817.0	0.0	2742.0	0.0	0.0	T STARTED 0645 hr
B. First Flow	520.0	0.0	506.0	0.0	0.0	T ON BOTM 0932 hr
B1. Final Flow	429.0	0.0	334.0	0.0	0.0	T OPEN 0935 hr
C. In Shut-in	1944.0	0.0	1936.0	0.0	0.0	T PULLED 1330 hr
D. Init Flow	233.0	0.0	185.0	0.0	0.0	T OUT 1700 hr
E. Final Flow	511.0	0.0	496.0	0.0	0.0	
F. Fl Shut-in	1689.0	0.0	1673.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2791.0	0.0	2722.0	0.0	0.0	Tool Wt. 1800.00 lbs
Inside/Outside	I I I					Wt Set On Packer 22000.00 lbs

RECOVERY

Tot Fluid 950.00 ft of 184.00 ft in DC and 766.00 ft in DP  
 4867.00 ft of Gas in pipe  
 30.00 ft of Heavy water cut mud  
 0.00 ft of 38% water 62% mud  
 920.00 ft of Gassy water  
 0.00 ft of 3% gas 97% water  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of  
 SALINITY 32000.00 P.P.M. A.P.I. Gravity

Wt Set On Packer	22000.00 lbs
Wt Pulled Loose	12000.00 lbs
Initial Str Wt	74000.00 lbs
Unseated Str Wt	78000.00 lbs
Bot Choke	0.75 in
Hole Size	7.78 in
D Col. ID	2.25 in
D. Pipe ID	3.80 in
D.C. Length	184.00 ft
D.P. Length	5633.00 ft

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BLOW DESCRIPTION

Initial Flow:  
 Strong bottom of bucket immediately.  
 Gas to surface in 3 minutes. Gauged  
 461,000.

Initial Shut-In:

4" blow back.

Final Flow:

Gauged 211,000 decreasing to 40,900  
 in 45 minutes.

Final Shut-In:

Strong bottom of bucket blow back.

Gas burned

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CONSERVATION DIVISION WICHITA, KS

SAMPLES: One

SENT TO: Caraway

Test Successful: Y

MUD DATA-----

Mud Type	Chemical
Weight	9.00 lb
Vis.	48.00 S/L
W.L.	9.50 in3
F.C.	0.00 in
Mud Drop Y	15.0 ft

Amt. of fill	0.00 ft
Btm. H. Temp.	138.00 F
Hole Condition	Good
% Porosity	5.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out N	
Tool Chased N	
Tester	Lanny Saloga
Co. Rep.	Craig Padgett
Contr.	Duke
Rig #	5
Unit #	
Pump T.	



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GAS RECOVERY

ORIGINAL

COMPANY: Sam Gary Jr. & Assoc, DATE: 10-23-00  
 WELL NAME: Nielson "25-13" KB Elev: 2011.00 ft TICKET #13092 DST #4  
 WELL LOCATION: 25-32S-19W Comanche co KS GR Elev: 1999.00 ft FORMATION: Viola  
 INTERVAL Fr.: 5824.00 To 5846.00 T.D.: 5846.00 ft TEST TYPE: CONVENTIONAL

GAS RECOVERY MEASURED WITH Merla Orifice

\*\*\*\*\* GAS RATES FOR FLOW #1

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
5	0.75	20	0	398000.0
10	0.75	25	0	461000.0

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\*\*\*\*\* GAS RATES FOR FLOW #2

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
5	0.75	7	0	211000.0
10	0.75	4	0	156000.0
15	0.75	1	0	76000.0
20	0.50	2	0	47700.0
25	0.50	1	0	33900.0
30	0.25	2	0	12700.0
35	0.25	7	0	25000.0
40	0.25	14	0	37600.0
45	0.25	16	0	40900.0

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WICHITA, KS

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\*\*\* TOOL DIAGRAM \*\*\* CONVENTIONAL

ORIGINAL

WELL NAME: Nielson "25-13"

LOCATION : 25-32S-19W Comanche co KS

TICKET No. 13092 D.S.T. No. 4 DATE 10-23-00

TOTAL TOOL TO BOTTOM OF TOP PACKERS ..... 30

INTERVAL TOOL .....

BOTTOM PACKERS AND ANCHOR ..... 22

TOTAL TOOL ..... 52

DRILL COLLAR ANCHOR IN INTERVAL .....

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY .....

D.C. ABOVE TOOLS.Stands 3 Single Total 184

D.P. ABOVE TOOLS.Stands 90 Single 1 Total 5633

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5869

TOTAL DEPTH ..... 5846

TOTAL DRILL PIPE ABOVE K.B. .... 23

REMARKS:

FLUID SAMPLER DATA

Total Vol. 4000 ML.  
 Total Vol. Rec. 800 ML.  
 Oil 0 ML.  
 Mud 0 ML.  
 Wtr. 800 ML.  
 Gas 14.4 CF.  
 Psi. 1410  
 Bht. 138 F.  
 Pit RW. 0.95 Ohms at 58 F. 7,600 PPM.  
 Rec RW. 0.23 Ohms at 68 F. 32,000 PPM.  
 Gravity -- at -- F.

P.O. SUB Cir. sub	5670
C.O. SUB Top of tool	5794
Double pin	5795
S.I. TOOL Sterling	5800
Sampler	5803
HMV Sterling	5808
JARS Bowen	5813
SAFETY JOINT Bowen	5815
PACKER Sparton	5820
PACKER Sparton	5824
DEPTH	
1 ft.	5825
ANCHOR Rec. sub	5826
Alpine	5826
Pu. sub	5831
AK-1	5843
13 ft. perfs	5844
BULLNOSE 2 ft. perf	
T.D.	5846

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WICHITA, KS

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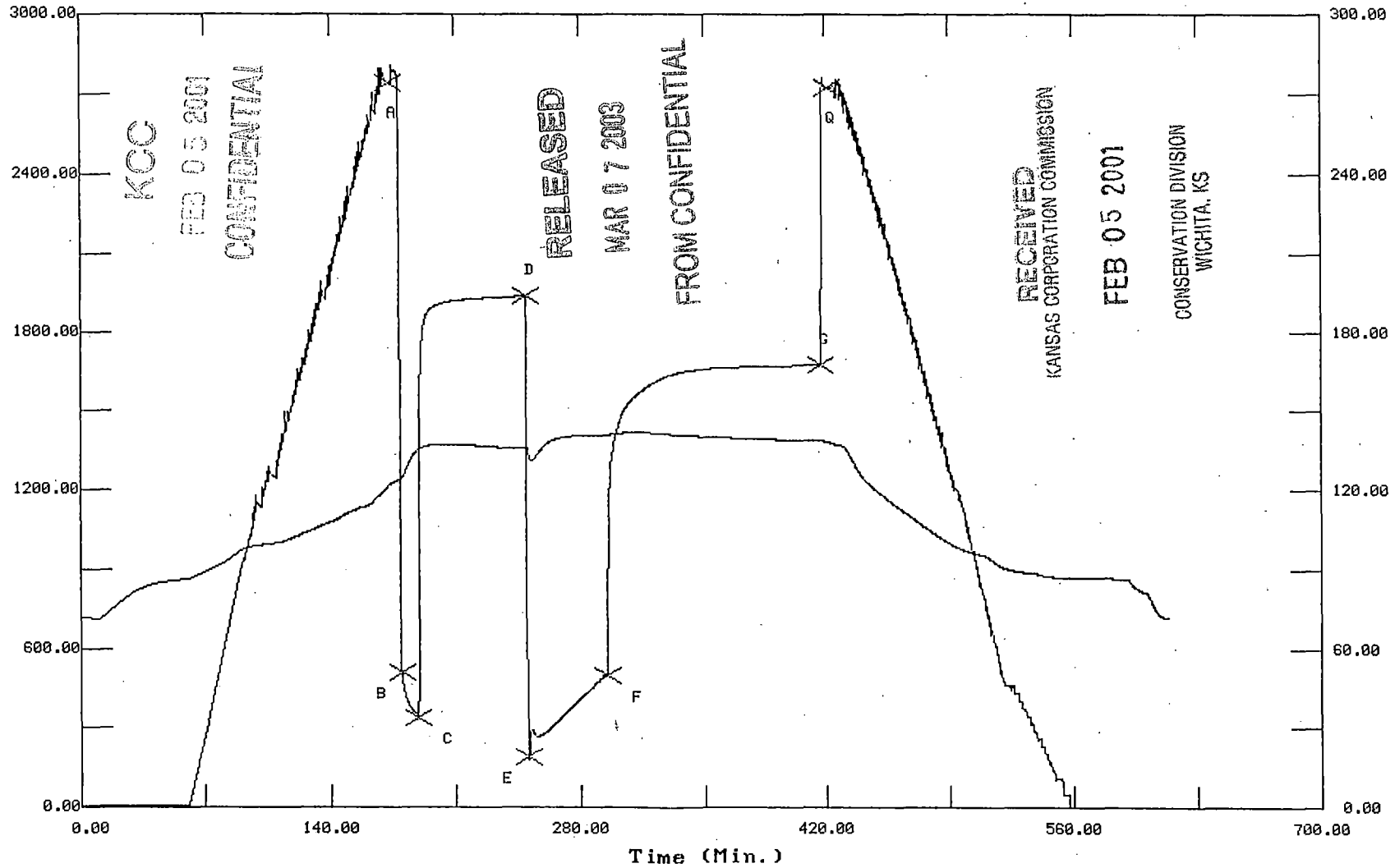
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# TEST HISTORY

13892 D.S.T.#4 Nielson "25-13" Sam Gary Jr. & Associates

Flag Points  
t(Min.) P( PSig)

A:	0.00	2742.33
B:	0.00	506.67
C:	9.50	334.78
D:	61.00	1936.28
E:	0.00	185.02
F:	44.75	496.98
G:	121.50	1673.48
Q:	0.00	2722.49



Temperature (DEG F)

Time (Min.)